**IALA Technical Committees, Version 3 – Draft 2013-07-16 (A3)**

| ***Technical Domain*** | ***Work description*** | ***Goal & Strategy ex-SV2*** |
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| **Technical Committee #1 – AtoN Requirements and Standards** | | |
| TD#1 – Requirements and Standards for [visual and short-range] AtoN systems | | 12G3-S1 |
|  | Standards for marking, using short-range AtoN, including visual, radar, AIS  Maritime Buoyage Scheme, Marking of offshore structures and energy farms, Traffic signals, Leading lights and marks, Wreck marking, AtoN for high speed craft, Use of AIS and Radar AtoN, Record keeping |  |
|  | Use of Virtual AtoN |  |
| TD#2 – Management of AtoN services | | 12G3-S1 |
|  | Levels of service  Availability and reliability criteria  Quality management  Contracting |  |
| TD#3 – Marine Spatial Planning | | 12G3-S4 |
|  | AtoN and VTS in Marine Spatial Planning |  |
|  | Design of AtoN systems for channels and restricted waterways  Use of simulation |  |
|  | Risk management and risk analysis tools – creation, use, licensing, and legal |  |
| TD#4 – International coordination and liaison | | 12G3-S1 |
|  | Interaction with IMO and other IGOs, except ITU |  |
|  | Revision of IALA products to suit international instruments and national legislation |  |
| **Technical Committee #2 – e-Navigation and Shore Infrastructure** | | |
| TD#1 – Data modelling and message systems | | 12G3-S2 |
|  | AtoN data information structure, exchange, presentation  S-100 registry and Product Specifications |  |
|  | Message structure for e-Nav including VDES |  |
|  | Maritime Service Portfolios, design and content |  |
| TD#2 – e-Navigation communications | | 12G3-S2 |
|  | VDES, satellite, WRCP |  |
|  | AIS technology  ASM coordination and web hosting |  |
|  | ITU planning and liaison, WRC preparation and national coordination |  |
| TD#3 – Shore technical infrastructure | | 12G3-S2 |
|  | Shore infrastructure design  e-Navigation architecture |  |
|  | Resilient PNT shore services - DGPS, e-Loran, other |  |
|  | Virtual AtoN technology |  |
|  | Sharing of shore data, IALA-NET, etc. |  |
| TD#4 – Future sea navigation services | | 12G3-S5 |
|  | Data gathering and analysis  Participation in and harmonisation of results of test beds  Harmonisation policy and planning |  |
|  | Sea traffic operations, and VTS beyond territorial limits  Monitoring of developments nationally and regionally, and effect on competent authorities  Maintaining advice to IALA membership  Proposing draft IALA policy and draft standards |  |
| **Technical Committee #3 – AtoN Engineering** | | |
| TD#1 – Light and vision physics | | 12G3-S1 |
|  | Visual perception, day and night  Conspicuity  Colours in visual signalling  Technical standards for colour and colour measurement  Range and performance computation |  |
| TD#2 – Short range AtoN engineering | | 12G3-S1 |
|  | Buoy and beacon engineering and performance  Lights, Beacons, Buoys, Daymarks, Sector lights, Radar beacons, Power systems, Maintenance, Protection, Safety of personnel, AtoN engineering in polar regions |  |
|  | Background lighting effects and mitigation |  |
|  | Polar AtoN engineering |  |
| TD#3 – Global capacity building and training | | 12G2-S2, -S3 |
|  | Standards for training and certification of AtoN personnel |  |
|  | WWA model courses for AtoN and e-Navigation |  |
| **Technical Committee #4 – Vessel Traffic Services** | | |
| TD#1 – Operations | | 12G3-S3 |
|  | VTS operations, Staffing standards, Standard phrases |  |
|  | Inter-VTS operations |  |
|  | World VTS Guide |  |
| TD#2 – Technology | | 12G3-S3 |
|  | VTS systems technology, Sensors, Presentation |  |
|  | Inter-VTS data exchange |  |
| TD#3 – VTS training | | 12G3-S3 |
|  | Operator training |  |
|  | VTS model courses |  |
|  | Simulation in VTS training |  |
|  | Training considerations for ships’ bridge officers |  |

**IALA Complementary Committees and Fora**

| ***Committee*** | ***Focus*** | ***Goal / Strategy ex SV2*** |
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| **Heritage Forum** | | |
| WG – Preservation of structures and artefacts | | - |
|  | Selection and display of artefacts  Maintenance and repair of heritage structures |  |
| WG – Ownership, public access | | - |
|  | Complementary use of historic structures  Management of surplus property  Branding and promotion |  |

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| **Industrial Members Committee** | | |
| WG – Shore infrastructure for future systems | | 12G3-S2 |
|  | Coordinated briefings to Technical Committees  Views to Secretariat for IMO meetings |  |
| WG – Ship bridge systems and AtoN systems compatibility | | 12G3-S2, -S3, -S5 |
|  | Coordinated briefings to Technical Committees |  |